Noxious Weeds of the Klamath National Forest





Field Identification Handbook



Blue Ridge Saddle, Salmon River Ranger District
Photo by Danika Carlson

This information is subject to change. For current information contact:

Klamath National Forest Supervisor's Office 1711 South Main Street Yreka, CA 96097 (530) 842-6131 (voice) or (800) 877-8339 (TDD)

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Spotted Knapweed – *Centaurea maculosa* Lam.



Pictures by: J.M DiTomaso and E.A. Healy, © 2007 Weeds of California and other Western states, The Reagents of the University of California Inset: Pictures from unknown internet source 5

Habitat: Disturbed areas, well-drained soils, rangeland

Life Cycle: Biennial or short lived perennial from deep tap root

Height: 1-4 feet tall

Leaves: Rosette leaves deeply lobed, stem leaves entire to shallowly-lobed

Flowers: Pink to purple in small clusters of 1-3

Flower bracts (phyllaries): tips are black and fringed, flowers appear

spotted

Seeds: Can produce 25,000 seeds that remain viable for more than 15

years

Bloom: June to October

Diffuse Knapweed - Centaurea diffusa Lam.



Also Known As: White Knapweed

Habitat: Roadsides, fields, pastures, and waste areas

Life Cycle: Biennial, highly branched with tumbleweed appearance from

tap-root

Height: 1-3 feet tall

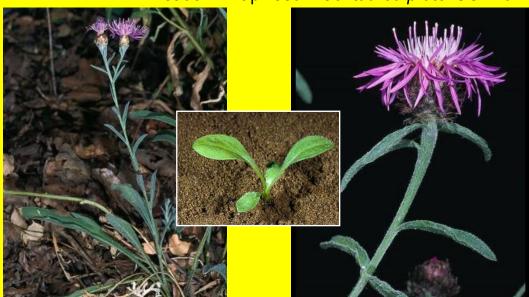
Leaves: Gray-green, deeply lobed, increasingly smaller near top of stem

Flowers: Pink to purple in small clusters of 1-3

Flower bracts (phyllaries): pale green, fringed with straw-colored spines

Bloom: June to September

Meadow Knapweed – Centaurea pratensis Thuill.



Also Known As: Short-fringed or Tyrol Knapweed

Habitat: Disturbed fields, pastures, meadows, waste areas with higher

moisture content

Life Cycle: Perennial

Height: 1-3.5 feet tall

Leaves: Entire to irregularly lobed

Flowers: Purple to red flowers produced terminally

Bloom: July to September

Other: Hybrid between black and brown knapweed. Traits highly variable

Squarrose knapweed – Centaurea squarrosa Willd.



Habitat: Disturbed areas, gravelly areas, roadsides

Life Cycle: Long-lived perennial from tap-root

Height: 1-2 feet tall

Leaves: Rosette leaves deeply divided, stem leaves grayish and reduced

Flowers: Pink to pale purple, numerous few-flowered heads

Flower Bracts (Phyllaries): Recurved to spreading, terminal spine longer

than lateral spines

Bloom: June to August

Russian Knapweed - Acroptilon repens (L.) DC.



Habitat: Roadsides, fields, pastures, cultivated areas

Life Cycle: Rhizomatous perennial that forms dense stands, black roots

Height: 1-3 feet tall

Flowers: White, pink or lavender discoid flowers

Flower Bracts (phyllaries): Several overlapping rows, of greenish

bracts with broad papery margins and no spines.

Fruits: Many small seeds disperse near parents, viable for 2-3 years

Bloom: May to September

MuskThistle - Carduus nutans L.



Also Known As: Nodding Thistle

Habitat: Roadsides, fields, pastures, waste and disturbed areas

Life Cycle: Biennial or Winter Annual from fleshy tap-root

Height: 2-6 feet tall

Leaves: Spiny margined leaves extend down stem as spiny wings

Flowers: Large (1.5-3in) rose-purple, solitary, terminal, often nodding

Flower Bracts (phyllaries): Broad and spine tipped

Bloom: July to November

Canada Thistle— Cirsium arvense (L.) Scop.



KNF Priority: MODERATE

Habitat: Disturbed moist, sunny areas, pastures, rangelands, forests, riparian areas

Life Cycle: Perennial, deep spreading roots with creeping lateral roots

Height: 1-4(6.5) feet tall

Leaves: Rosettes not well defined, leaves are oblong to lance-shaped,

spiny, irregular margins, upper leaves reduced

Flowers: pink-purple flowers, flower heads are tear-drop shaped, bracts are

spineless, male and female plants separate

Seeds: Dispersed by wind

Bloom: June to September

Italian Thistle - Carduus pycnocephalus L.



Habitat: Dry woodlands, chaparral, roadsides, fields, and waste areas

Life Cycle: Annual, occasionally biennial from fleshy tap-root

Height: 1-6 feet tall

Leaves: Deeply lobed, spine-tipped leaves extend down stem as spiny

wings

Flowers: Pink to purple in small clusters of 2-5

Seeds: Produces 2 types, inner are silver and wind dispersed, outer are

brown and fall with flower-heads. Seed can be viable for 10 years

Bloom: February to June

Scotch Thistle – *Onopordum acanthium* L.



Habitat: Disturbed areas, roadsides, rangelands, and waste sites

Life Cycle: Biennial from fleshy taproot

Height: 2 – 8 feet tall

Stems: Broad winged and spiny, dense matted hairs, with gray-blue

appearance

Leaves: Rosette up to 2 feet wide. Stems leaves large, alternate, oblong,

prickly with irregular margins

Flowers: Purple flower heads flat, involucre bracts with pale orange spines

Bloom: May to August

Taurian Thistle – *Onopordum tauricum* Willd.



Habitat: Disturbed areas, roadsides and waste sites

Life Cycle: Biennial or short-lived perennial from taproot

Height: 3 – 8 feet tall

Stems: sticky, glandular, conspicuously spiny winged

Leaves: Bright green, acutely triangular, toothed lobes, covered in small

hairs

Flowers: Singular bright purple to pink flower heads, involucre bracts

numerous and spiny

Bloom: May to August

Yellow Star-thistle – Centaurea solstitialis L.



Habitat: Dry open areas, pastures, roadsides, widespread

Life Cycle: Annual from tap-root

Height: 0.5 - 4 feet tall

Leaves: Rosette leaves deeply lobed, stem leaves narrow and entire,

extend down stem giving a wavy-winged appearance

Flowers: bright yellow and spiny

Flower Bracts (Phyllaries): Green bracts with stiff spines up to 2"

Bloom: April to September

Houndstongue- Cynoglossum officinale L.



Habitat: Dry habitats, open woodlands, disturbed areas, roadsides, fields

Life Cycle: Biennial or short-lived perennial from a deep tap-root

Height: 1 to 4 feet tall

Leaves: Rosette leaves softly pubescent and tongue shaped, stem leaves

long and narrow, reduced above

Flowers: Purple to dark red, small, in long, coiled inflorescences

Fruits: Four nutlets with barbed hooks and raised edges, easily cling to

animals and clothing

Bloom: May to July

Dyer's Woad – Isatis tinctoria L.



Left picture by S. Orloff, lower inset by M. Knight, upper inset and right picture © Br. Alfred Brousseau, Saint Mary's College

KNF Priority: MODERATE

Also Known As: Marlahan Mustard

Habitat: Roadsides, fields, pastures, disturbed areas, openings in forests

Life Cycle: Winter annual, biennial, short-lived perennial from deep tap-root

Height: 1-4 feet tall

Leaves: Blue-green with prominent central, white vein. Basal rosette, cauline leaves sessile and arrowhead-shaped

Flowers: Small, 4-parted, yellow flowers in dense flat-topped clusters

Fruits: Flat, oblong, purple-brown seed pods hang pendant

Bloom: April-July

Whitetop- Cardaria draba (L.) Desv.



Pictures by: J.M DiTomaso and E.A. Healy, © 2007 Weeds of California and other Western states, The Reagents of the University of California

KNF Priority: MODERATE

Habitat: Disturbed open areas, moist, alkaline soils

Life Cycle: Perennial from deep, spreading roots

Height: 0.5 – 2 feet tall

Stems: Branched near top, covered with short hairs, plant has blue-green

appearance

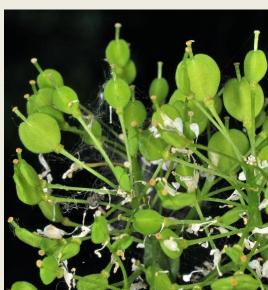
Flowers: white, 4-petaled, clustered and appearing flat topped

Fruits: Oval to heart shaped pods, containing 2 seeds

Bloom: March to August

Lens-podded Whitetop- Cardaria chalepensis (L.) Hand.-Maz.





KNF Priority: MODERATE

Habitat: Widely distributed, in fields and along roads

Life Cycle: Strongly rhizomatous perennial, often growing in colonies

Height: 0.5 – 2 feet tall

Stems: Branched near top, covered with short hairs

Flowers: white, 4-petaled, clustered and appearing flat topped

Fruits: Round, inflated pods, not notched at base or indented along seam

Bloom: May to June

Hairy Whitetop- Cardaria pubescens (C.A. Mey) Jarmol.



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Habitat: Disturbed open areas, wildlands, fields, roadsides

Life Cycle: Perennial from deep, spreading roots

Height: 0.5 – 1.5 feet tall

Stems: Branched near top, covered with short hairs

Flowers: white, 4-petaled, clustered and appearing flat topped

Fruits: Strongly inflated pods, round to oval, glandular-hairy

Bloom: April to September

Perennial Pepperweed – Lepidium latifolium L.



Habitat: Riparian areas, wetlands, grasslands, pastures, and roadsides

Life Cycle: Erect perennial forb from a coarse, deep, widely spaced root

system

Height: 1 to 3 (8) feet tall

Leaves: Basal leaves long petioled, cauline leaves alternate, reduced above

Flowers: Many small white flowers in a panicle, four parted

Fruits: Flattened, elongated pods containing tiny red-brown seeds

Bloom: May to July

Leafy Spurge – Euphorbia esula L.





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Habitat: Disturbed areas, riverbanks, roadside, pastureland, praires

Life Cycle: Perennial from massive, deep, widely spreading, and persistent root system

Height: 2 to 3 feet tall

Stem and Leaves: Umbrella-like branching, numerous linear leaves near the inflorescence and along stem, milky latex that can irritate skin and eyes

Flowers: Flowers reduced lacking petals, in "3's", subtended by yellow-

green heart shaped leaves

Fruits: Small 3 chambered capsule

Bloom: May to August

Scotch Broom - Cytisus scoparius (L.) Link.



Habitat: Disturbed areas, riverbanks and corridors, roadsides, logged or burned areas

Life Cycle and Height: Woody, perennial shrub 6 to 10 feet tall

Stem and Leaves: Green stems with prominent ridges, few leaves with 1-3 oblong leaflets, soft hairy

Flowers: Bright yellow pea flowers are produced before leaves and are densely arranged along stem

Fruits: Greenish brown-black legume pods, flattened, 1-2 inches long, hairy only on edges; viable in soil for at least 50-years

Bloom: March to May

French Broom – Genista monspessulana (L.) L. Johnson



Habitat: Roadsides, oak woodlands, chaparral, open mixed conifer forest

Life Cycle: Woody, evergreen shrub from deep spreading taproot

Height: Up to 8 feet tall

Stem: Green, densely clustered stems covered in silvery hairs

Leaves: Leafy, deciduous, typically 3 leaflets, soft-hairy

Flowers: Yellow pea flowers born in leaf axial

Fruits: Legume pods, densely silky hairy

Bloom: March to May

Perennial Sweet Pea - Lathyrus latifolius L.



KNF Priority: LOW

Habitat: Open sunny areas, drought tolerant, old homesteads

Life Cycle: Perennial climbing vine

Height: 3 to 6 foot long vine

Stem: Hairless and strongly ridged/winged

Leaves: Alternate, 2-compound leaflets with a branched tendril in between

Flowers: Purplish pink pea flowers, born in axial of leaves

Fruits: Hairless pods that splits open into curled segements along seams

shooting seeds from plant

Bloom: May to September

Cheat Grass – Bromus tectorum L.



Pictures by: J.M DiTomaso and E.A. Healy, © 2007 Weeds of California and other Western states, The Reagents of the University of California, Cassondra Skinner. Bureau of Land Management. United States, ID, Bureau of Land Management Jarbidge Resource Area. May 16, 2007

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KNF Priority: LOW

Habitat: Roadside, rangelands, cultivated fields, dry open conifer forests, widespread

Life Cycle: Winter or spring annual from robust, spreading lateral and vertical roots

Height: 1 to 30 inches, rapid grower, variable by site characteristics

Fruits: Prolific seeders, 25 to > than 5,000.

Seed Banks: Seeds can remain viable for 5-12 years. Seeds typically

germinate as soon as conditions permit

Bloom: May to June

Medusahead – Taeniatherum caput-medusae L.



Pictures by: J.M DiTomaso and E.A. Healy, © 2007 Weeds of California and other Western states, The Reagents of the University of California

KNF Priority: LOW

Habitat: Cultivated fields, pastures, heavily grazed areas, roadsides, often

found growing or competing with cheatgrass

Life Cycle: Cool season annual grass

Height: 0.5 to 2 feet tall

Leaves: Very few leaves, typically mostly stems are produced

Flowers: 2-3 spikelets per nodes each with one seed, 2 awns on each

spikelet, the longer awn has erect barbs

Bloom: April to July

Sulphur Cinquefoil – *Potentilla recta* L.





Habitat: Disturbed areas, pastures, roadsides, waste areas, and burns

Life Cycle: Perennial forb from woody taproot

Height: 0.5 to 3 feet tall

Leaves: Palmately compound with 5-7 leaflets, covered with sparse stiff

hairs, upper leaves with reduced petioles and fewer leaflets

Stems: Covered with perpendicular hairs about 1/8" long

Flowers: Many white to creamy orange flowers in open, branched, flat-

topped inflorescence

Bloom: May to August

Puncture Vine - Tribulus terrestris L.



Also Known as: Goatheads

Habitat: Highly disturbed areas, compacted soils, roadsides, crop fields

Life Cycle: Summer annual from an extensive root system

Height: Stems grow prostrate along the ground, up to 5 feet long

Leaves: Pinnately compound with 3-7 leaflets, hairy

Flowers: Bright yellow, five-parted, born in leaf axial, only open on sunny

days

Fruits: Woody, five-lobed bur, separates into 4-5 nutlets with stout spines

and several short prickles

Bloom: March to October